

বাংলা :

1. 'হাঙ্গামা' কোন ভাষার শব্দ ?--- ফারসি
2. শব্দের রূপ পরিবর্তন কীসের আলোচ্য বিষয় ?--- রূপতত্ত্ব
3. 'ফাল্গুন' > 'ফাগুন' কীসের উদাহরণ ?--- অন্তর্হতি
4. 'প্রাতঃকাল' এর সন্ধি বিচ্ছেদ কোনটি ?--- প্রাতঃ + কাল
5. 'গায়ে-হলুদ' কোন সমাস ?--- বহুব্রীহি
6. 'অপসংস্কৃতি' শব্দটিতে 'অপ' উপসর্গটি কোন অর্থে ব্যবহৃত হয়েছে ?--- নিকৃষ্ট
7. 'সংশয়' শব্দের বিপরীত শব্দ কোনটি ?--- প্রত্যয়
8. 'ঠোঁট কাটা' বাগধারাটির অর্থ কোনটি ?--- স্পষ্টবাদী
9. একটি অপূর্ণ বাক্যের পরে অন্য একটি বাক্যের অবতারণা করতে হলে কোন যতিচিহ্নটি ব্যবহৃত হয় ?--- কোলন
10. 'পালামো' কোন ধরনের রচনা--- ভ্রমণ কাহিনী
11. রোহিণী কোন সাহিত্যকর্মের চরিত্র ?--- কৃষ্ণকান্তের উইল
12. সাহিত্য পত্রিকা কবিতার সম্পাদক--- বুদ্ধদেব বসু
13. মুক্তিযুদ্ধ ভিত্তিক গ্রন্থ নয় ---- মাতাল হাওয়া
14. আবুল ফজলের আত্মজীবনীমূলক গ্রন্থ ---- রেখাচিত্র
15. মৈমনসিংহ গীতিকার সম্পাদক--- ড. দীনেশচন্দ্র সেন
16. চর্যাপদের ছন্দ-মাত্রাবৃত্ত

**English:**

17. The success of the business venture \_\_\_\_\_ his expectations; he never thought that the firm would prosper.

Ans: Contradicted

18. Even though the jury \_\_\_\_\_ the CEO, his reputation was \_\_\_\_\_ by the fraud-allegation.

Ans: acquitted - tarnished

19. Taj Mahal, a world-famous monument, is situated \_\_\_\_\_ the bank \_\_\_\_\_ Jamuna river.

Ans: on, of

20. I have classes \_\_\_\_\_ 9:30 am \_\_\_\_\_ Saturday and Thursday \_\_\_\_\_ the university.

Ans: at, on, in

21. When water \_\_\_\_\_ it \_\_\_\_\_ into ice

Ans: freezes, turns

22. If he \_\_\_\_\_ his first draft, he would have received a better grade.

Ans: had revised

23. The number of female students graduating \_\_\_\_\_ from 1995 to 2015

Ans: more than two times

24. It should be \_\_\_\_\_

Ans: She with whom you share your ideas, not I.

25. NBR requires

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Ans: that e-TIN forms be submitted.

**Synonyms:**

- 26. Unkempt –Shabby
- 27. Animosity—hostility
- 28. Obedient—docile

**Antonyms:**

- 29. Candid—devious
- 30. Flamboyant—ordinary
- 31. Correct spelling— Pharmaceutical
- 32. 'a man of straw'—a man of no substance

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**Mathematics:**

**33. If  $3-6 \times 7 + 6 \div 4 = x$ , what is the value of x ?**

**Solution:**

$$\begin{aligned} 3-6 \times 7 + 6 \div 4 &= x \\ \Rightarrow 3-42+3/2 &= x \\ \Rightarrow -39+3/2 &= x \\ \Rightarrow (-78+3)/2 &= x \\ \Rightarrow -75/2 &= x \\ \Rightarrow x &= -37.5(\text{Ans}) \end{aligned}$$

**34. What is the next number in the series 3,18, 90, 360, ....?**

**Solution:**

$$3 \times 6 = 18, 18 \times 5 = 90, 90 \times 4 = 360, 360 \times 3 = 1080$$

Ans: D

**35. If the hour hand of a clock is turned anticlockwise from 2 pm to 9 am, thoroughly how many degrees will it have turned?**

**Solution:**

As the clock turned anticlockwise ,  
So, 2 pm to 9 am =5hours  
In 1hour the clock turned =30 degrees  
So, in 5hour the clock turned =30\*5 degrees=150 degrees  
Ans: C

**36. One third of a number is four times of eleven. What is the half of that number?**

**Solution:**

Let, the number=x  
According to the question,  
 $\frac{x}{3} = 4 \times 11$   
 $\Rightarrow x = 44 \times 3$   
So, the half of that number  $= \frac{44 \times 3}{2} = 66$

Ans: A

**37. Jahir has 15 red balls; he gives Sami 3 balls. Sami now has twice the number of balls Jahir has left. How many balls did Sami have at the beginning?**

**Solution:**

Sami had at the beginning= $x$

According to the question,

$$x+3=2(15-3)$$

$$\Rightarrow x+3=24$$

$$\Rightarrow x=24-3=21$$

Ans: D

**38. When a number is divided by 5, The remainder is 3. If the square of this number is divided by 5 then What is the remainder?**

**Solution:**

Let, the number is 8

$$8/5, \text{ remainder}=3$$

$$8^2=64$$

$$64/5, \text{ remainder}=4$$

Ans: B

**39. The value of  $-3 - (-10)$  is how much greater than the value of  $-10 - (-3)$ ?**

**Solution:**

$$-3 - (-10) = -3+10=7$$

$$-10 - (-3) = -10+3=-7$$

$$7 - (-7) = 7+7=14$$

Ans: D

**40. If a photocopier makes 2 copies in  $1/3$  second, at the same rate, how many copies does it make in 4 minutes?**

**Solution:**

$$4 \text{ minutes} = 4 \times 60 = 240 \text{ seconds}$$

$$1/3 \text{ seconds} = 2 \text{ copies}$$

$$1 \text{ seconds} = (2 \times 3) \text{ copies}$$

$$240 \text{ seconds} = (2 \times 3 \times 240) = 1440 \text{ copies}$$

Ans: D

**41. Find the slope of the line  $5x - 5y = 7$**

$$\text{Slope}=1$$

Ans: C

**42. If a man walks 14 kilometer/hour instead of 10 kilometer/hour, he would have walked 20 kilometers more. The actual distance travelled by him is: [BKB (officer) – 2017]**

**Solution:**

Let the actual distance =  $x$  km.

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Then,

$$x/10 = x + 20/14$$

$$\Rightarrow 14x = 10x + 200$$

$$\Rightarrow 4x = 200$$

$$\Rightarrow x = 50 \text{ km.}$$

Ans: B

**43. In the coordinate plane, for which one of the following values of x would the graph of the equation  $y = x^3 - x^2 - 6x$  not touch the x-axis?**

Ans: C (-2)

**44. How many 3-digit integers can be chosen such that none of the digits appear more than twice, none of the digits equal 0?**

**Solution:**

The number of ways without restriction =  $9 \times 9 \times 9 = 729$

The number of ways that break restriction =  $9 \times 1 \times 9 = 9$

So the answer is  $729 - 9 = 720$

Ans: B

**45. A pen is sold for Taka 48 with a 20% profit. What is the purchase price of the pen?**

**Solution:**

$$\text{Purchase price} = \frac{48 \times 100}{120} = 40$$

Ans: B

**46. A bank pays simple interest rate of 8% on investment. If you invest Taka 5,000 in the bank, how much money would you get after 8 years?**

**Solution:**

$$\text{Simple interest} = 5000 \times 8 \times 8 / 100 = 3200$$

$$\text{Money would you get after 8 years} = 5000 + 3200 = 8200$$

Ans: D

**47. If  $16^{2x+4} = 4^{3x+3}$ , then x=**

**Solution:**

$$16^{2x+4} = 4^{3x+3}$$

$$4^{2(2x+4)} = 4^{3x+3}$$

$$4x+8 = 3x+3$$

$$x = -5$$

Ans: A

**48. If the length and width of a rectangular garden plot were each increased by 20% what would be the percent increase in the area of the plot?**

**Solution:**

$$20 + 20 + \frac{20 \times 20}{100} = 40 + 4 = 44\%$$

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Ans: B

**49. The average of 6 numbers is 8.5. When one number is discarded, the average of the remaining numbers, becomes 7.2. What is the discarded number?**

**Solution:**

The sum of 6 numbers =  $8.5 \times 6 = 51$

The sum of remaining 5 numbers =  $7.2 \times 5 = 36$

So the discarded number =  $51 - 36 = 15$

Ans: D

**50. Three business partners Rahim, Sohel and Karim agree to divide their Total profit for a certain year in the ratio 2:5:8. If Sohel's profit was Taka 20,000 what was the total profit of the business for the year?**

**Solution:**

Let total profit =  $2x + 5x + 8x = 15x$

Given that,

$5x = 20000$

$\Rightarrow x = 4000$

So the total profit =  $15 \times 4000 = 60,000$

Ans: D

**51. What is the value of x in the figure below?**

**Solution:**

In the figure

$4x = y$  and

$4x + 8y = 180$

$\Rightarrow 4x + 8 \times 4x = 180$

$\Rightarrow 36x = 180$

$\Rightarrow x = 5$

Ans: B

**52. Mr. A and Mr. B have a combined weekly salary of Taka 1,000. If salary of A is increased by 2.5 times and salary of B is increased by 1.5 times, the combined salary would be Taka 1600. What was the original salary of B?**

**Solution:**

Let, the original salary of B =  $x$

According to the question,

$2.5(1000 - x) + 1.5x = 1600$

$\Rightarrow 2500 - 2.5x + 1.5x = 1600$

$\Rightarrow -x = -900$

$\Rightarrow x = 900$

Ans: C

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**53. If  $n$  is an even integer, which of the followings must be an odd integer.**

**Solution:**

Let,  $n=2$

Putting the value in the options:

$(16*2+24)/8=(32+24)/8=56/8=7$  which is an odd integer.

Ans: C

**54. Tamim runs diagonally across a rectangular field twice that has a length of 40 yards and a width of 30 yards. What is the length of the diagonal, in yards, that Tamim runs?**

**Solution:**

Let, the length of the diagonal= $x$

According to Pythagoras

$$x^2=30^2+40^2$$

$$\Rightarrow x^2=900+1600$$

$$\Rightarrow x^2=2500$$

$$\Rightarrow x=50$$

Ans: A

**55. Solve the following inequality:  $-2x - 5 > x - 2$**

**Solution:**

$$-2x - 5 > x - 2$$

$$\Rightarrow -2x - x > -2 + 5$$

$$\Rightarrow -3x > 3$$

$$\Rightarrow -x > 1$$

$$\Rightarrow x < -1$$

Ans: B

**56. In a class 78 students, 41 are taking French and 22 are taking German. Of the students taking French or German, 9 are taking both courses. How many students are not enrolled in either course?**

**Solution:**

Students enrolled in either course= $41+22-9=54$

students are not enrolled in either course= $78-54=24$

Ans: C

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### **General Knowledge**

57. International calling code of Bangladesh +880

58. Deepest point -mariana trench

59. Diabetes day-14th november

60. Mashrafe is the captain of -ODI

61. Headquarter of BJRI-Dhaka

62. Not a mobile financial service -Q-cash

63. Authority regulates money market of Bangladesh –Bangladesh Bank

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64. Not directly affiliated with world bank - IMF
  65. Not a central bank- state bank of india
  66. Not a bank note-2 tk
  67. Largest economic zone-Mirsarai
  68. Specialized commercial bank - Bangladesh Krishi Bank
  69. 10 Taka bank account- financial inclusion
  70. Japanese king step down-Akhito
  71. Agreement Green house gas-Paris agreement
  72. sin tax-exice duty
  73. Mohammad bin salman- KSA
  74. Budget -400266
  75. Loop web page, another document-hyperlink
  76. Flaw in a program -bug
  77. '\$' in excel-fixing
  78. undo-ctrl+z
  79. Philosophy of sharing resources - cloud computing
  80. Not search engine-safari (It is a browser)
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বিঃদ্রঃ “মানুষ মাত্রই ভুল”। তাই আমারও ভুল হতে পারে।  
ভুল থাকলে নিজ দায়িত্বে শুদ্ধ করে নিবেন।

**\*\*\*সাবাহিকে ধন্যবাদ\*\*\***

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